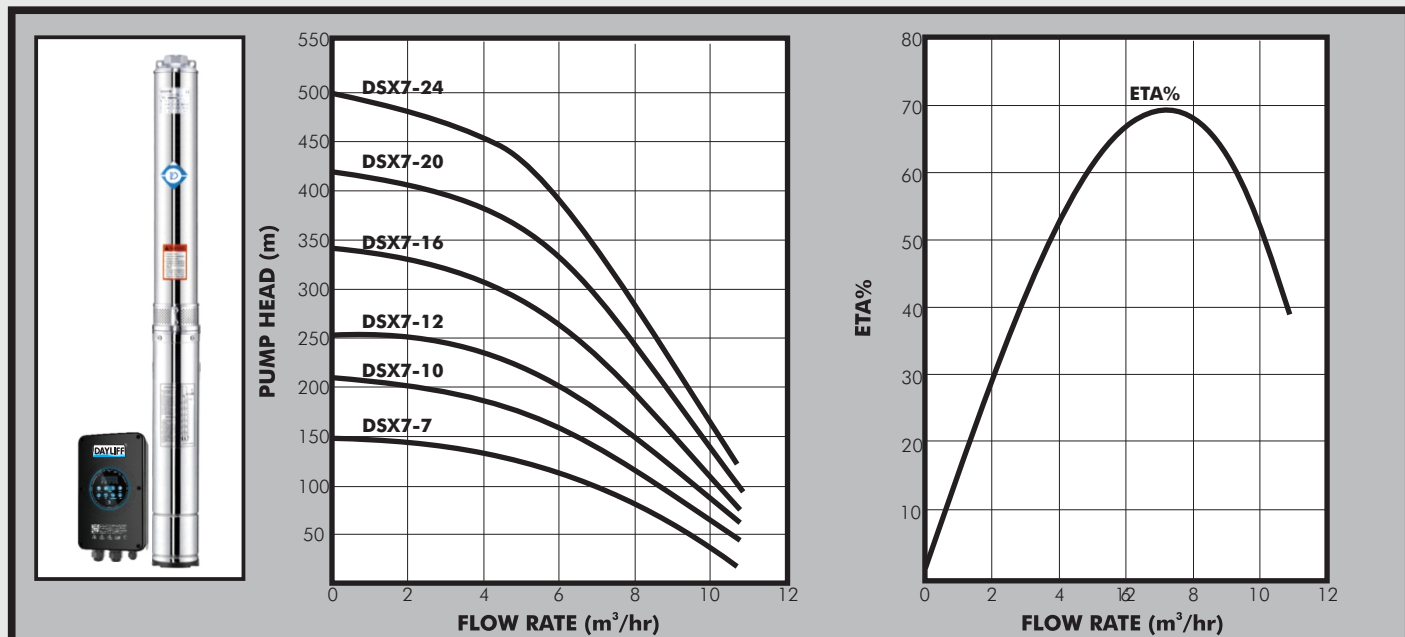




# DSX7

## Permanent Magnet Borehole Pumps



### PUMP

DAYLIFF DSX submersible pumps featuring permanent magnet motors are specifically designed for water supply from boreholes. Equipped with a high specification intelligent variable frequency controller and operating at high frequency they offer unmatched efficiency and much reduced size. Materials of construction are engineering polymer impeller and diffuser and AISI304 stainless steel for top and bottom chambers, pump sleeve and shaft.

### MOTOR

Permanent magnet synchronous motor uses special magnetised materials which generate a higher flux density that greatly improves efficiency and power factor. Operating at 5000 RPM the rated motor current is about 85% of an equivalent synchronous motor with the motor efficiencies of up to 90%.

### CONTROLLER

The pump is provided with a remote intelligent variable frequency controller with features that include digital parameter indication, soft start, IoT (Internet of Things) control facility, electrical protection from high/low voltage, motor current overload and phase loss and dry run protection. The IoT capability provides various functionalities including remote control, real time monitoring, operating status recording and fault alarm record. Pumps can be monitored and controlled through GSM connected mobile phones.

DAYLIFF DSX submersible pumps feature revolutionary motor design that provides up to 15% improvement in energy efficiency, about 50% reduced sized and improved reliability through enhanced motor control. They offer quite unmatched operational performance and are the new frontier in pumping technology.

**Enclosure Class:** IP68, Controller: IP55

**Voltage:** 3x380V - 415V

**Insulation Class:** B

**Speed:** 5000rpm

### OPERATING CONDITIONS

**Pumped liquid:** Thin, clean, chemically non-aggressive liquids without solid particles or fibres.

**Max. Liquid Temperature:** +35°C

**Max. Particle Size:** 2.3mm

**Max Immersion Depth:** 200m

**Minimum Borehole Diameter:** 110mm

### PUMP DATA

Model	Motor		Current (A)	DN (")	Dimensions (mm)			Weight (kg)
	kW	HP			A	B	C	
DSX7-7	2.2	3	5	1 ½	364	809	445	12
DSX7-10	3	4	8		391	926	535	14
DSX7-12	4	5.5	10		419	1045	626	16
DSX7-16	5.5	7.5	13		459	1205	746	19
DSX7-20	7.5	10	16		509	1375	866	22
DSX7-24	9.2	13	19		559	1576	1017	26

